



Datasheet for ABIN987821

EGF Protein



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3 Images

1 Publication

Overview

Quantity:	50 µg
Target:	EGF
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

Product Details

Sequence:	NSDSECPLSH DGYCLHDGVC MYIEALDKYA CNCVVG YIGE RCQYRDLKWW EL
Characteristics:	The ED50, calculated by the dose-dependant proliferation of murine BALB/c 3T3 cells is less than 2 ng/ml, corresponding to a specific activity of 5.0×10 ⁵ IU/ mg.
Purity:	> 95 % as determined by (a) Analysis by SEC-HPLC (b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel
Endotoxin Level:	Level Less than 0.1ng/myg (1 IEU/myg) determined by LAL test

Target Details

Target:	EGF
Abstract:	EGF Products
Background:	Human Epidermal Growth Factor (EGF) is a polypeptide growth factor which stimulates the proliferation of a wide range of epidermal and epithelial cells. Human Epidermal Growth Factor (EGF) is a 6,200 Da protein containing 53 amino acid residues. Synonym: rHuEGF, Epidermal Growth Facto. Formulation: The protein was lyophilized after extensive dialysis against 10mM

Target Details

Phosphate buffer, pH7.0, 200mM NaCl buffer.

Molecular Weight: 6.0 kDa+/-10% determined by reduced SDS-PAGE Isoelectric Point The main zone between 4.0-5.0 analysis by IEF UV Scan The maximal absorption wave is 275+/-3 nm.

Pathways: [NF-kappaB Signaling](#), [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Regulation of Carbohydrate Metabolic Process](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Interaction of EGFR with phospholipase C-gamma](#), [Thromboxane A2 Receptor Signaling](#), [EGFR Downregulation](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is recommended to reconstitute the lyophilized Recombinant Human Epidermal Growth Factor (EGF) in sterile 18 Mohm-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Quantitation Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 2.858 as the extinction coefficient for a 0.1% (1 mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).2. RP-HPLC analysis, using a calibrated solution of EGF as a reference standard.

Storage: -20 °C

Publications

Product cited in: Hedl, Abraham: "Distinct roles for Nod2 protein and autocrine interleukin-1beta in muramyl dipeptide-induced mitogen-activated protein kinase activation and cytokine secretion in human macrophages." in: **The Journal of biological chemistry**, Vol. 286, Issue 30, pp. 26440-9, (2011) ([PubMed](#)).

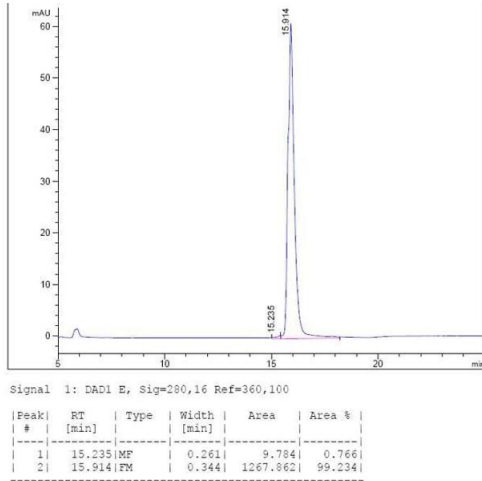
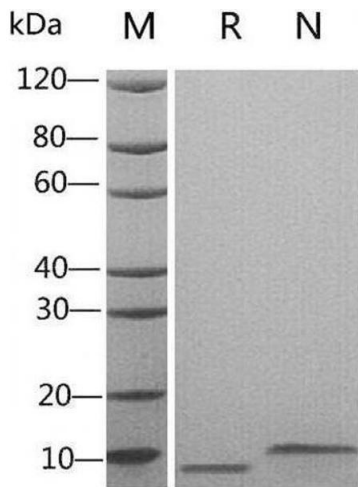
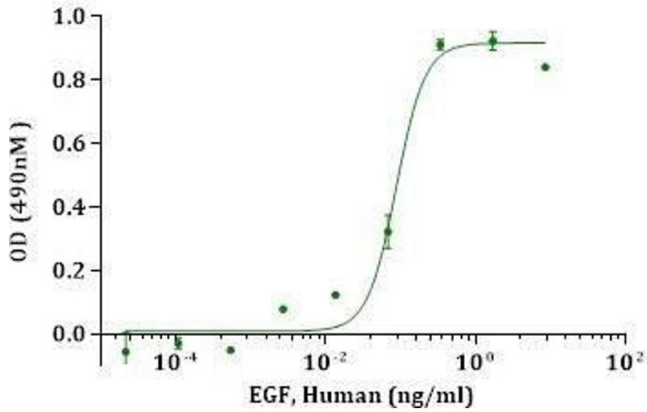


Image 1.



SDS-PAGE

Image 2. 2 µg of EGF, Human was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.



Activity Assay

Image 3. EGF, Human stimulates cell proliferation of the Balb/3T3 Cells. The ED50 for this effect is less than 0.2ng/mL(0.10 ng/mL).